

Waveform Generator
2

Waveform Generator capable of generation of complex waveforms including spiked waveforms. Output is single phase with a frequency range of 5-2,000,000 Hz. Generator may also modify the waveform as necessary, or may provide a time period at zero voltage.

Multiple Output Phase Shifter

3 4

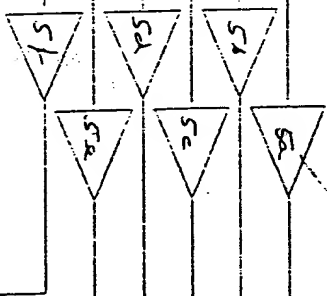
Phase angle delay
Phase angle delay
Phase angle delay
Phase angle delay
Phase angle delay

Multiple Output Phase Shifter capable of generating multiple phase outputs varying from 1 phase to 6 phases. The total number of degrees of phase shift between individual outputs is independently variable on each output.

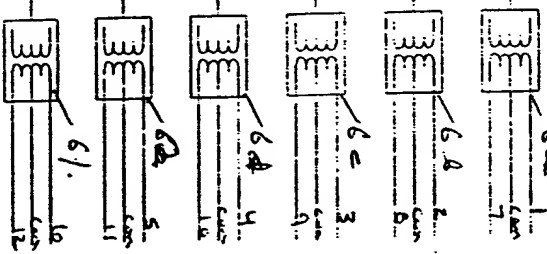
approx. 12 phase

FIG. 1

Amplifiers 5



Transformers



Amplifier increases the voltage level and is adjustable from 0 - 220 volts. Wave shape or phase angle is not affected by the amplification.

Transformer increases the output voltage of the amplifier to a maximum voltage of 40,000 volts. This increase is possible with no significant effect on the wave shape or phase angle.

"POWER SUPPLY"

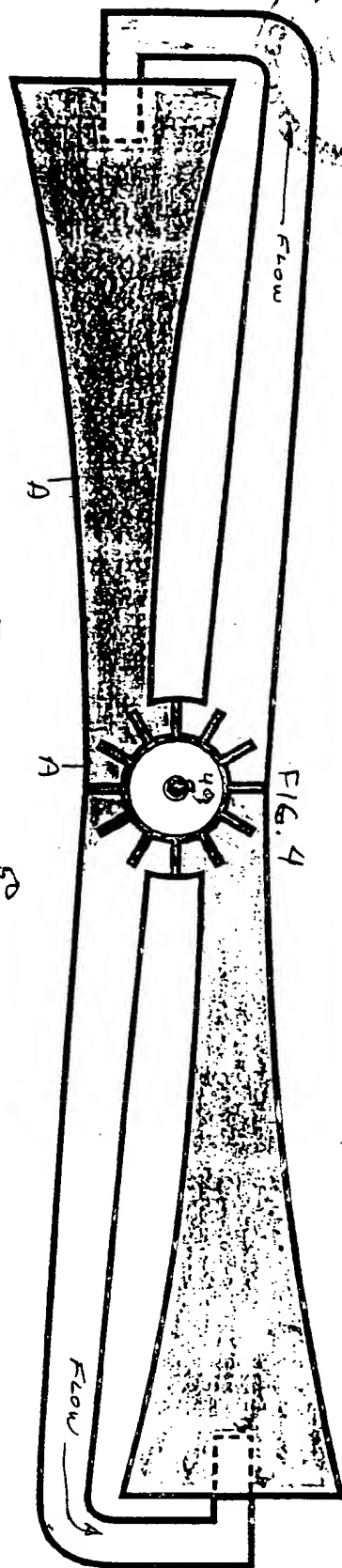
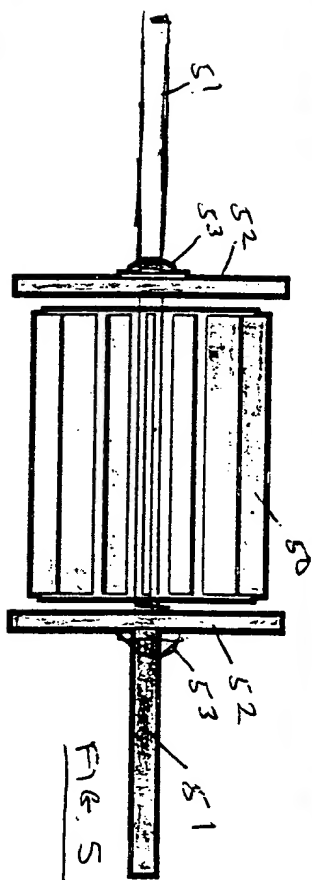
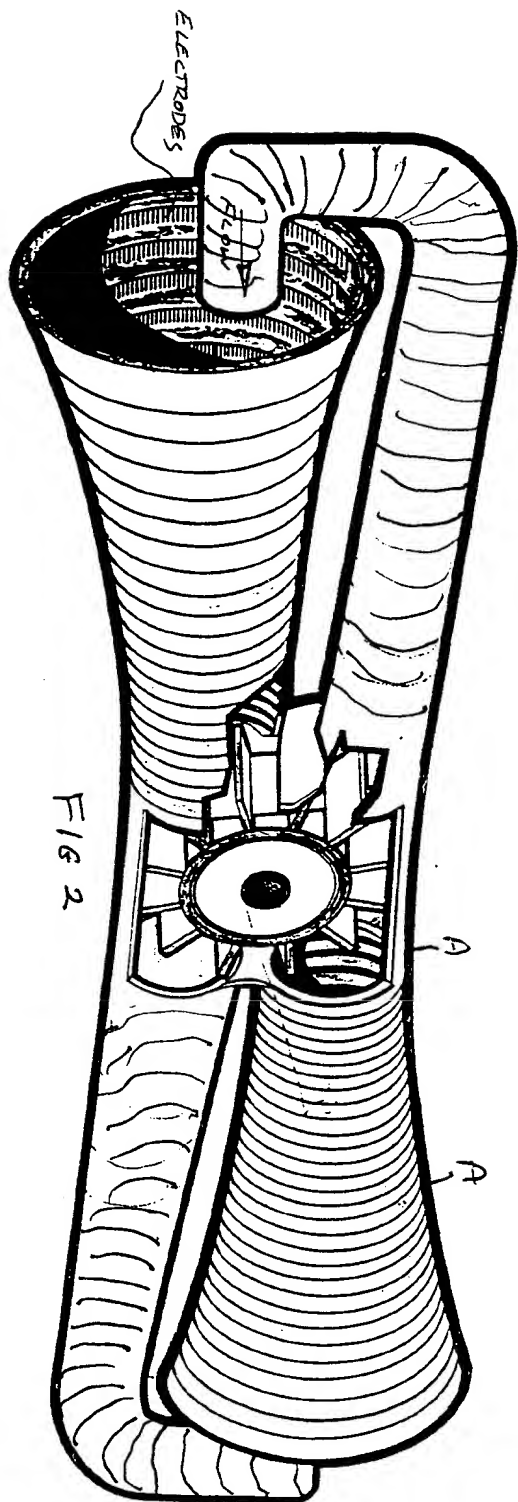
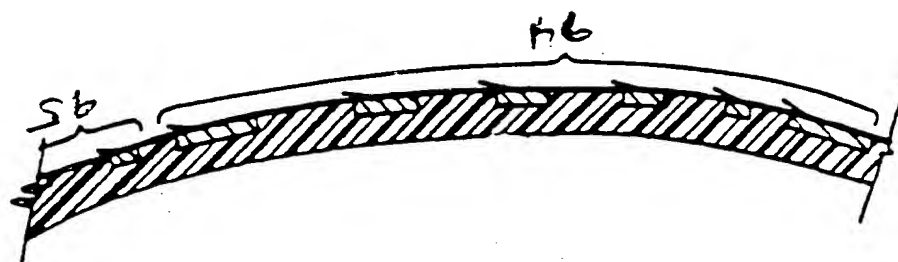




FIG 3



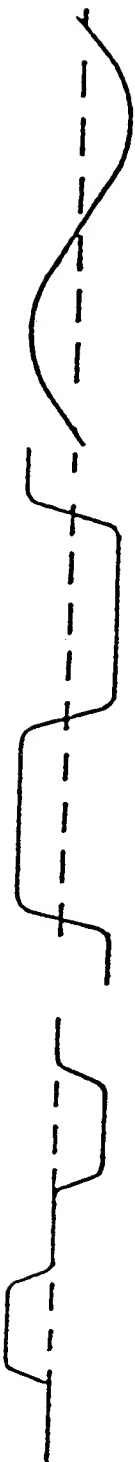


Fig. 6

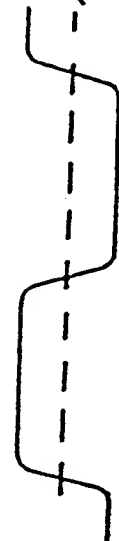


Fig. 7



Fig. 8

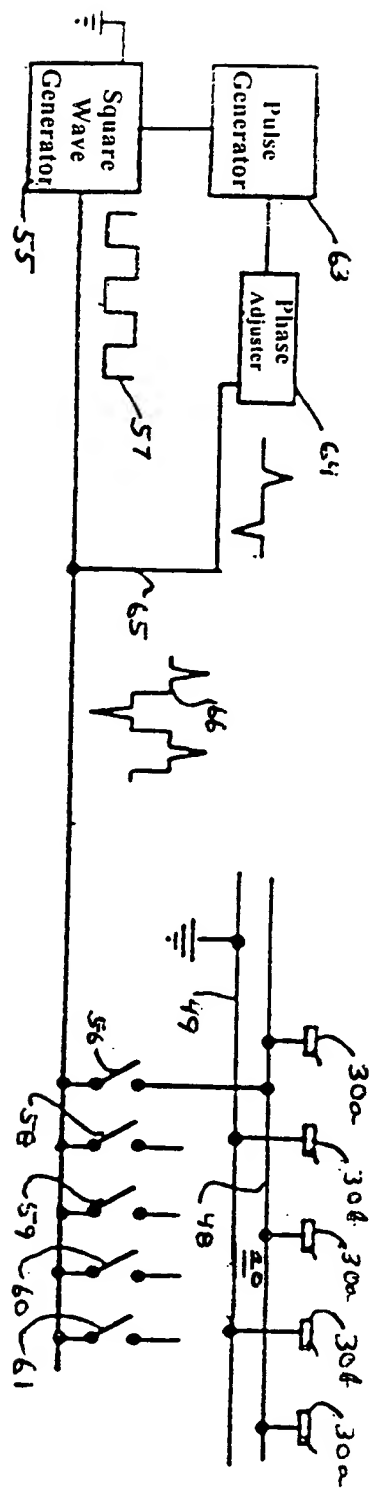


Fig. 9

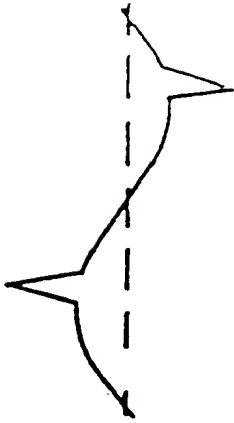


Fig. 10

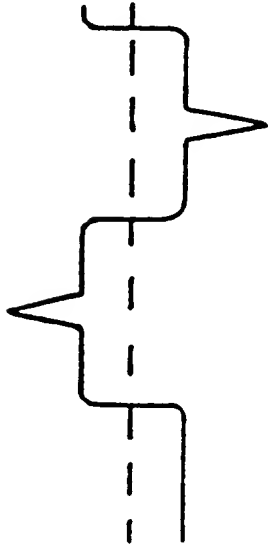


Fig. 11

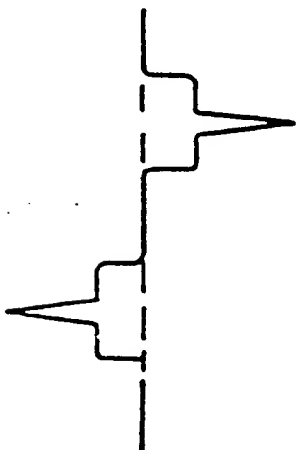


Fig. 12

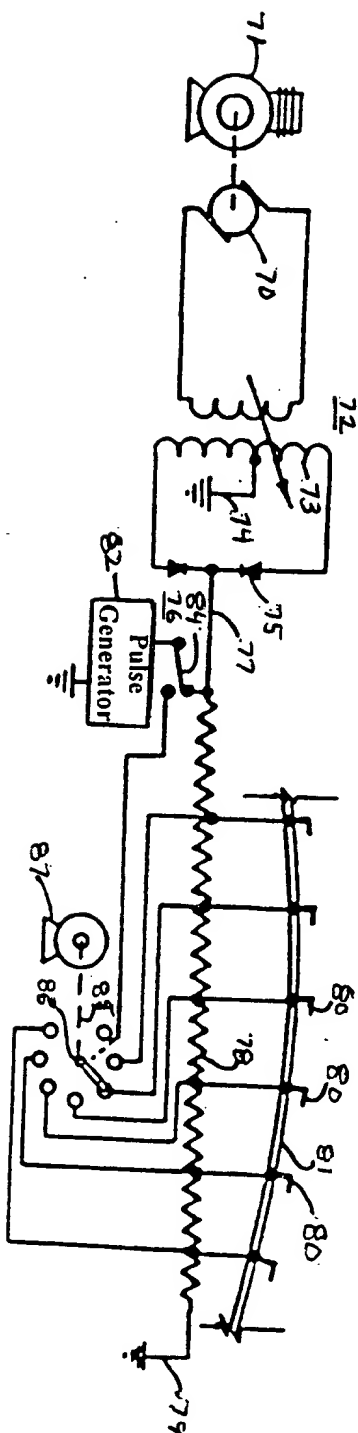
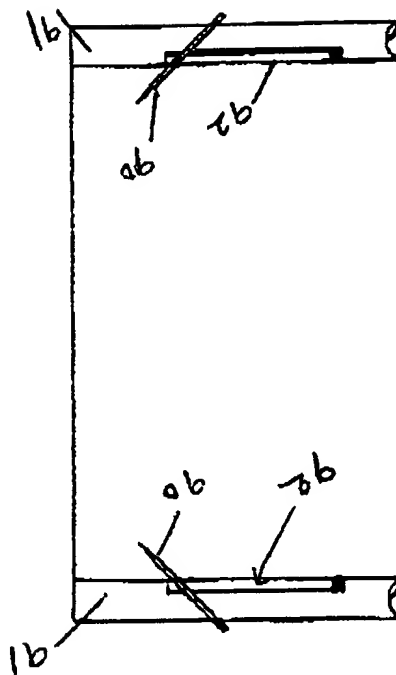


Fig. 13



Fig. 14B



L12

Fig. 14A

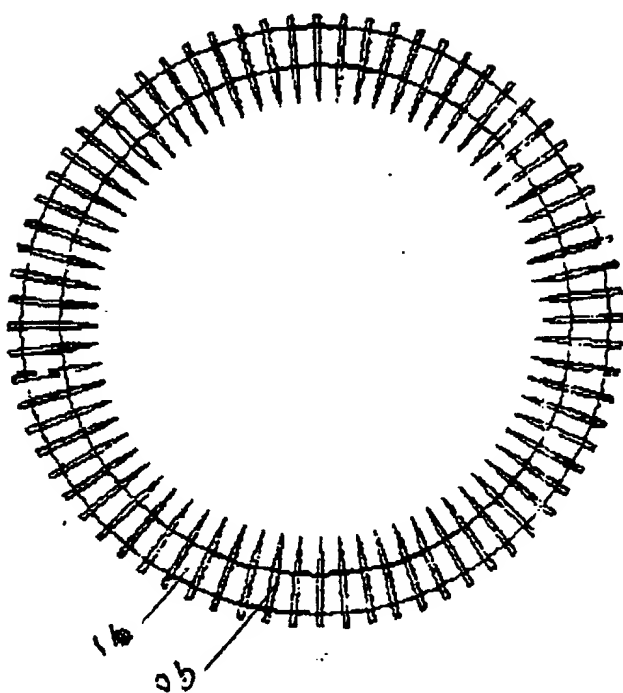
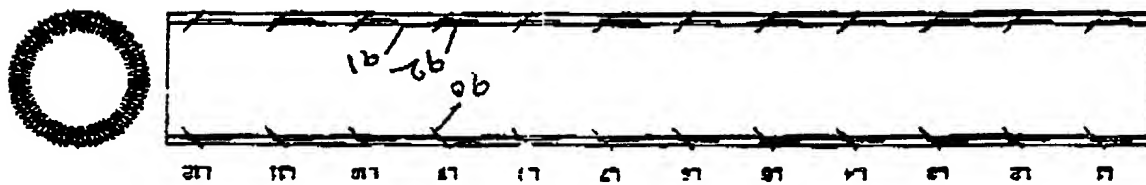


Fig. 14



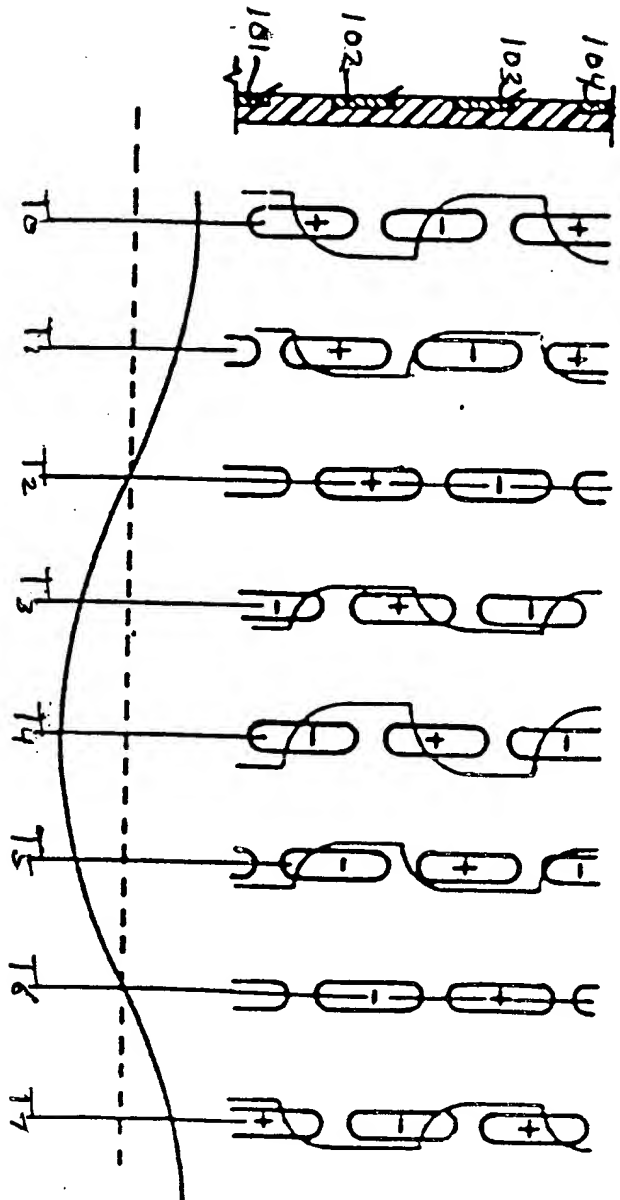


Fig. 15

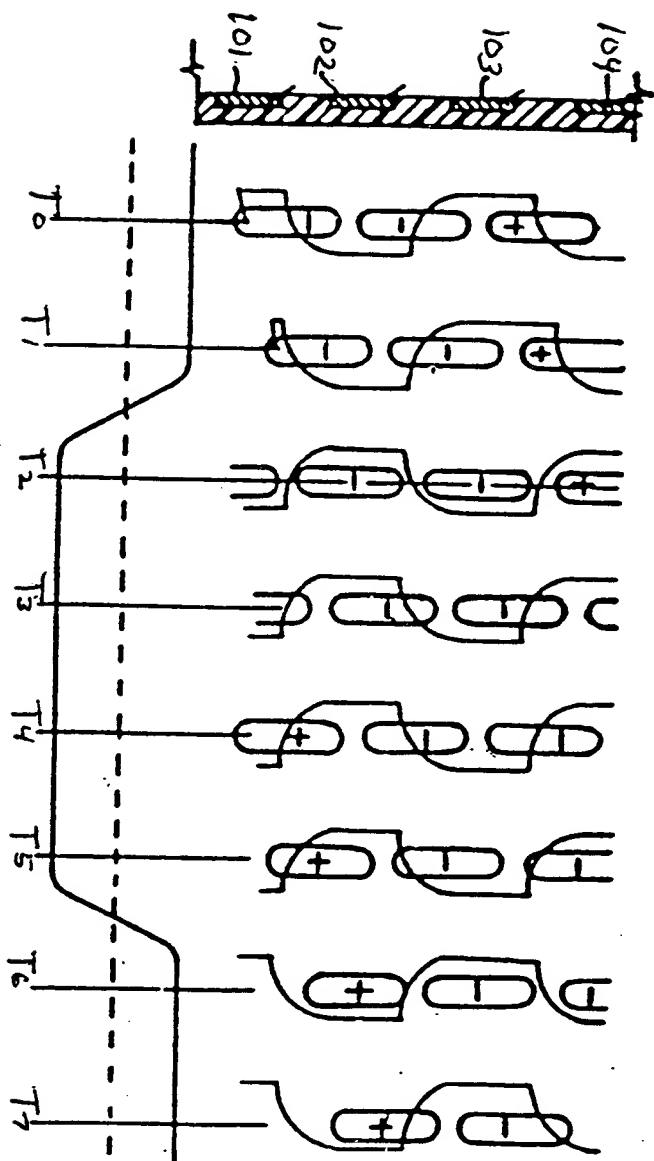


FIG. 16

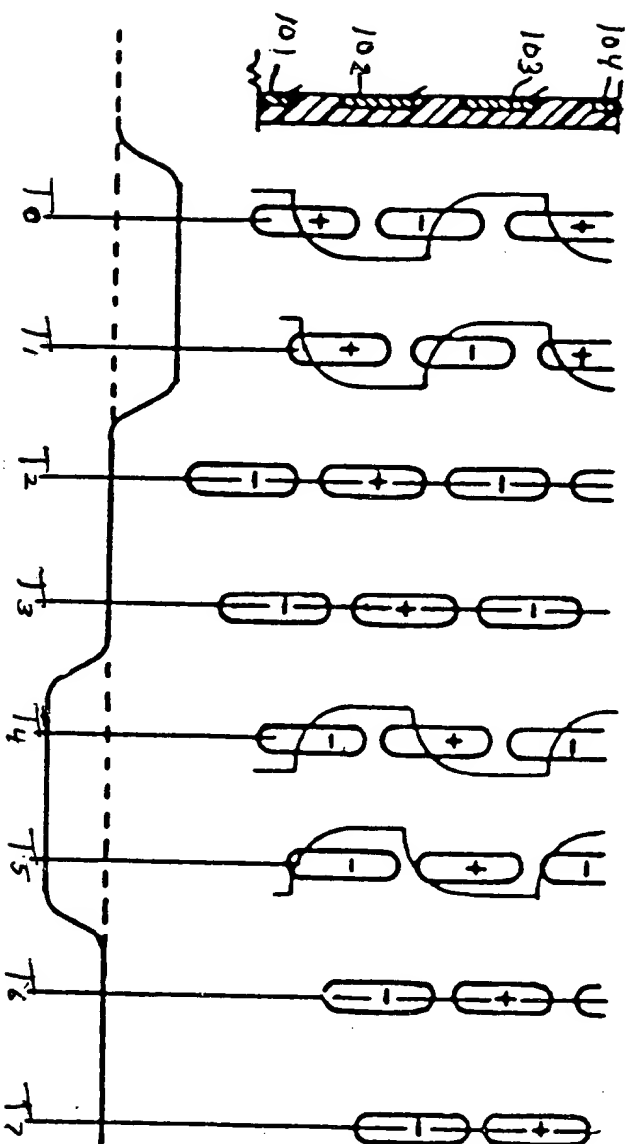


Fig. 17

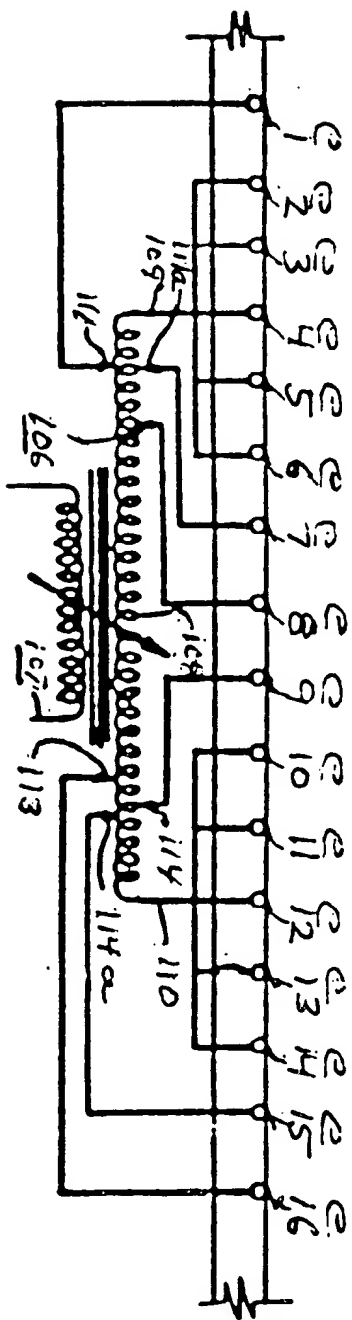


Fig. 18

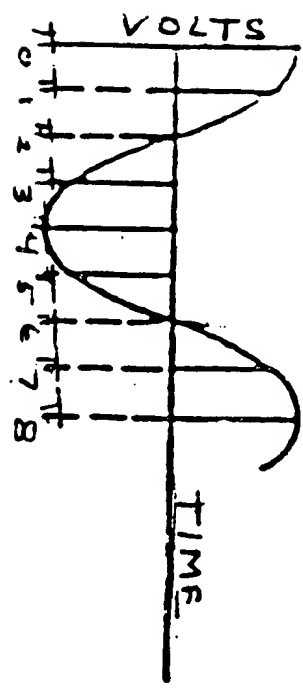


Fig. 20

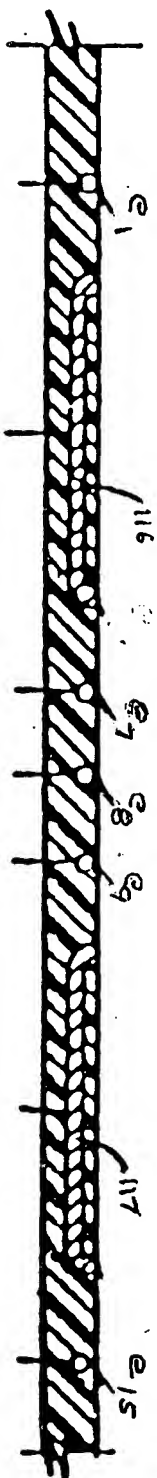


FIG. 21

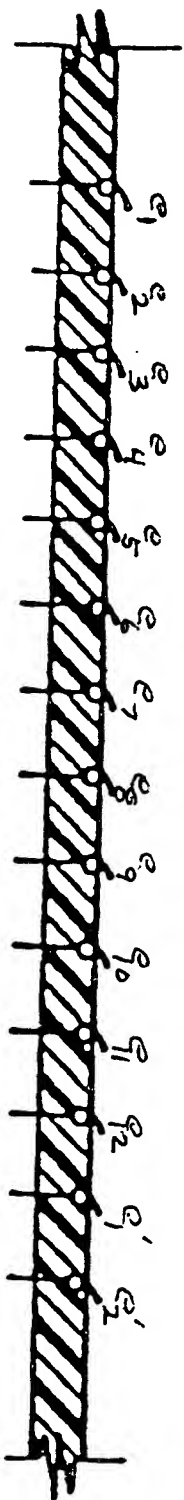


Fig. 22



Fig. 23

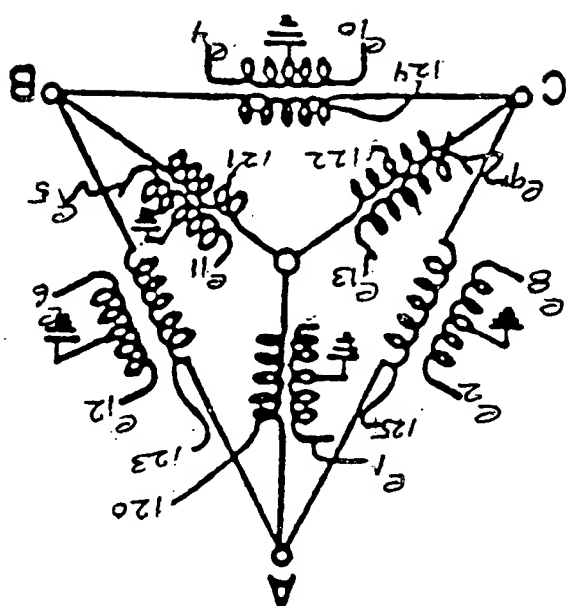
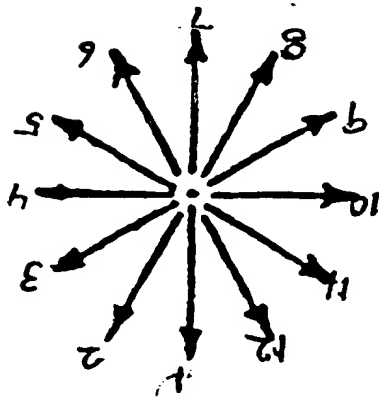




Fig. 24



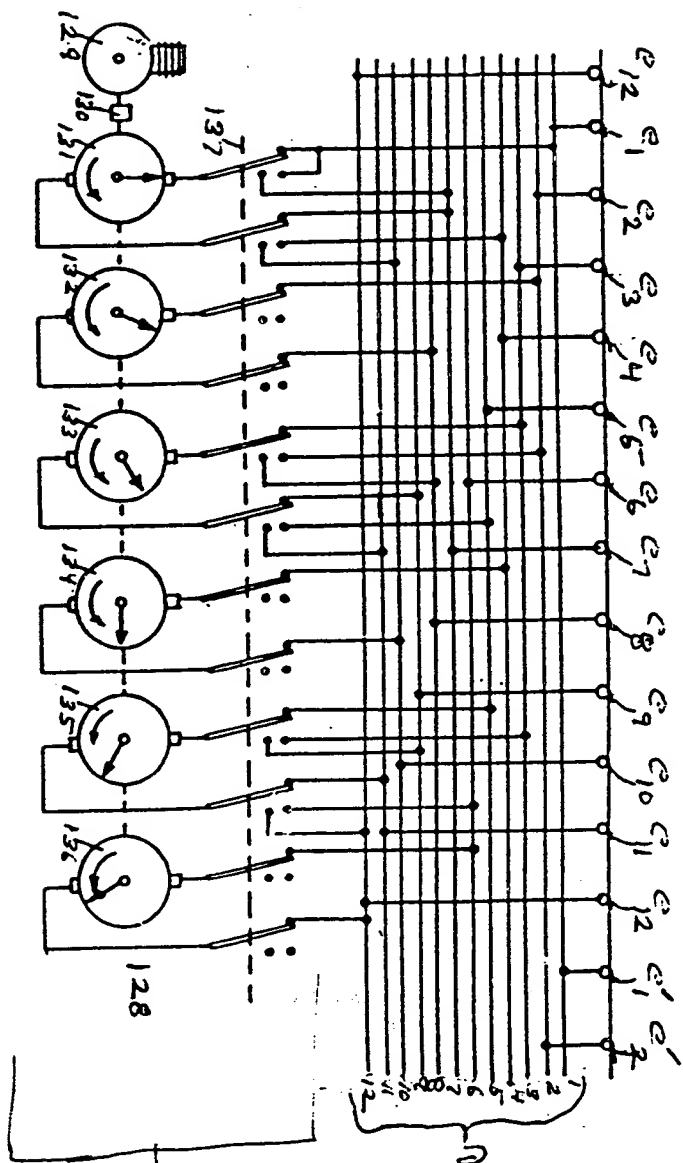


FIG. 25

ALTERNATIVE
TO FIG. 1

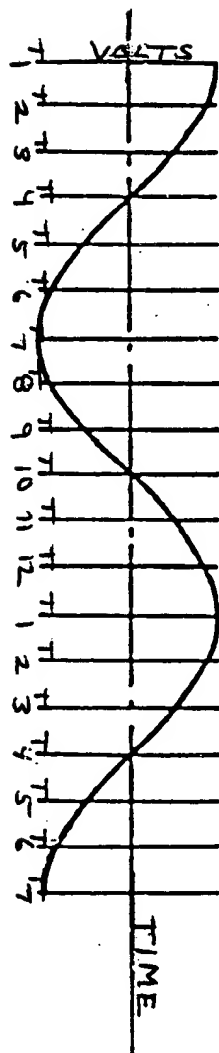


FIG. 26

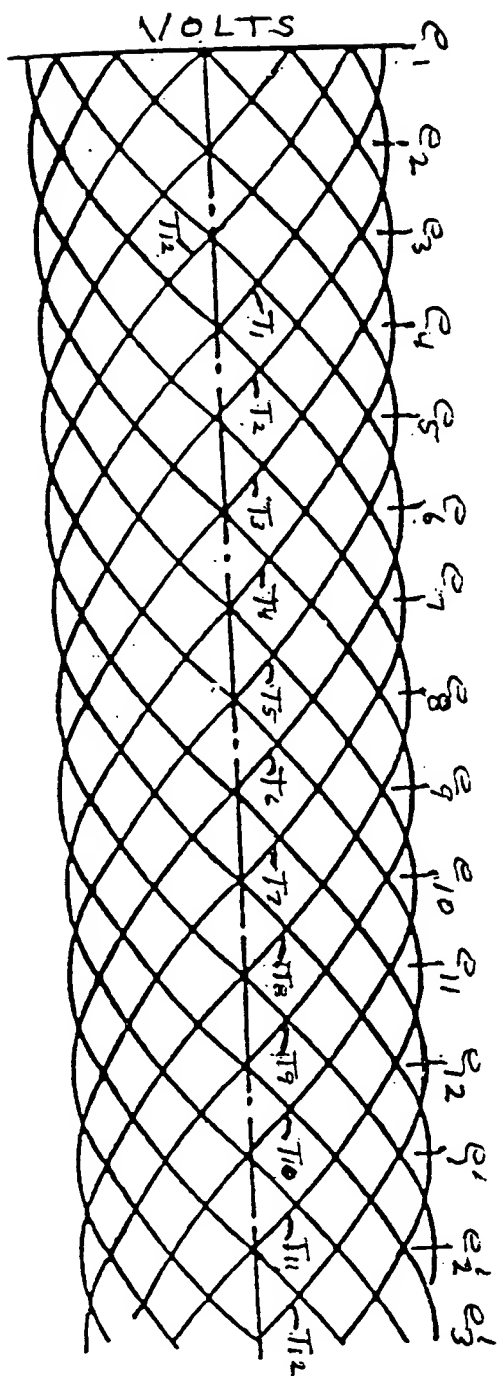


Fig. 27

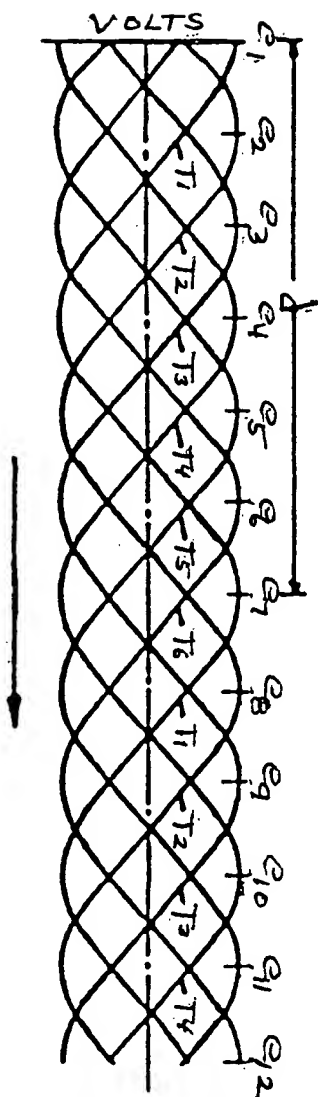


FIG. 28